

Product datasheet for **TP328622M**

CARNS1 (NM_001166222) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human carnosine synthase 1 (CARNS1), transcript variant 1, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC228622 representing NM_001166222 Red =Cloning site Green =Tags(s)

MLSLDPSGPEWDCPLGSKDLEEEGPWGGGSLPPTGCFPGSWRQDVGLDCKGSPEGAEARAWTVYYYS
 L
 QSCLQQAGLPETQDRGQVPRTGCPGAEVTLCLVGLSPSTFLPVLLEGGVQSPGNMLLCLSPAWLMKVPAP
 G
 QPGEAALLVSKAVSFHPGGLTFLDDFVPPRRATYFLAGLGLGPGRGREAAELARDLTCPTGASAEARLL
 EDRLLTRQLLAQQGGVAVPATLAFTYKPPGLLRGGDASLGLRLVELSGKEGQETLVKEEVEAFRLSEALG
 DILQVAVKLSGWRWRGRQAWRLHPRAELGAVVDTVLLLEKLEEEESVLVEAVYPPAQLPCSDGSPSPGPG
 LAVRICAVVCRTQGDRPLLSKVVCVGRGDRPLRHHNSLPRTLEVALAQCGLEEAQVAAVRQRVKAAAE
 AALAAVLALAEAGLSAEQRRGRRHTDFLGVDFAALTAAGGVLTTPVALELNGGLCLEACGALEGLWAAPRLG
 PAADAEVAAPLVETMLRRSARCLMEGKQLLVVGAGGVSKKFVWEAARDYGLQLHLVESDPNHFASQLVQ
 T
 FIHFDMTEHRRDEENARLLAELVRARGLKLDGCFSYWDDCLVLTALLCQELGPLCSSPAAMRLAKQKSLT
 QLHLLHHHGPPWPAPSLHAVPCCPLESEADVERAVHQVPLPGVMKLEFGAGAVGVRLVEDAPQCHEHF
 SR
 ITRDLQGEADHPGIGLGWGNAMLLMEFVEGTEHDVDLVLFGGRLAFAVSDNGPTRLPGFTETAACMPT
 G
 LAPEQEAQMVQAAFRCLGCGLLDGVFNVELKLTGAGPRLEINPRMGGFYLRDWILELYGVDLLAAVM
 VACGLRPALPTRPRARGHLVGVMCLVSQHLQALSSTASRETLQALHDRGLLRNLNLEEALVPGEYEEPYC
 SVACAGPSPTEARLRLGLCQGLGIDGPSYPVAHFLSHFK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

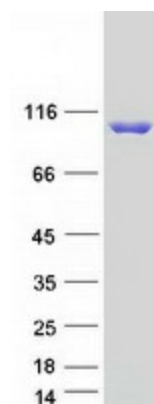
Tag:	C-Myc/DDK
Predicted MW:	101.1 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method



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Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	NULL or Add: Recombinant proteins was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_001159694
Locus ID:	57571
UniProt ID:	A5YM72
Cytogenetics:	11q13.2
RefSeq ORF:	2850
Synonyms:	ATPGD1
Summary:	CARNS1 (EC 6.3.2.11), a member of the ATP-grasp family of ATPases, catalyzes the formation of carnosine (beta-alanyl-L-histidine) and homocarnosine (gamma-aminobutyryl-L-histidine), which are found mainly in skeletal muscle and the central nervous system, respectively (Drozak et al., 2010 [PubMed 20097752]).[supplied by OMIM, Apr 2010]

Product images:



Coomassie blue staining of purified CARNS1 protein (Cat# [TP328622]). The protein was produced from HEK293T cells transfected with CARNS1 cDNA clone (Cat# [RC228622]) using MegaTran 2.0 (Cat# [TT210002]).